



ISD IT Initiatives

Code 585 Branch Presentation



Agenda

✂ Networking

- Migration to Active Directory
- Wireless update
- VPN access

✂ Migration to Windows XP

✂ PatchLink



Networks

Active Directory (AD)

- Agency standard (NASA-STD-2801a dated 12/2001) requires all NASA Microsoft Networks to implement AD
- Code 585 represented AETD in Center-wide requirements and pilot implementation
- Developed Migration strategy and detailed plan
- With ODIN DO3 transitioning the Network responsibility back to Code 290 – Center-wide AD implementation status is unknown



Networking

Implementing AD for 580

- The migration will put all 58x Windows workstations into a single domain for ease of administration (IT Security policies, patch updating, etc.).
- All users will authenticate to a single, central resource controlled by 580 admins.
- Administration of users, workstations, printers, share points and other network resources will be set up exactly as they will be in the center-wide domain, thereby easing the migration process to the center-controlled domain when the time comes.



Networking

AD Schedule

- Code 580 Domain is operational and fully tested
- Existing Gen-X users starting the first week in March, and ending the week of March 29.
- Code 584 and 582 Domains users starting first week in April
- Code 580 windows user migrations will follow shortly thereafter, with the expectation of being complete by beginning of May



Networking

AD Migration Process (What users should expect)

- Our goal is to minimize interruption to network services and migrate everyone as quickly as possible, without disturbing normal day-to-day user activities as they relate to network resource access.
- System Administrator will schedule time with users
- Migration will take no more than 10 minutes of each user's time.
- Collect specific hardware and system configuration information will be collected for the XP Migration.
- Install PatchLink Client



Networking

Center-wide wireless pilot program

- Implemented in Bldg 8.
- Separate wireless network (not on CNE)
- Expanding to cover all Bldg Conference Rooms (FY05)
- Other areas implementation being considered

VPN Program

- Allow access to Goddard's CNE from DSL/Cable Modems/Other Networks
- Servers are operational and being tested by 290
- Arranged Pilot activity in Code 580



Windows XP

- ✦ Agency requirement to migrate administrative desktop systems to XP
- ✦ ODIN started migration effort
 - Upgrading systems – not full installs – users can request full installations but may increase turn around time
- ✦ FY04 Budget received for XP professional, OfficeXP/2003 and limited hardware upgrades
- ✦ System Admin Team has evaluated migrations tools and test processes to improve migration process



WindowsXP

Migration Process

- Pre-assessment of system hardware (being done during AD migration)
- Analyze information and coordinate hardware upgrade with cognizant line management
 - Some budget to buy memory, hard drive or new systems
 - Integrate with Branch IT refresh schedules
- Schedule installation with user
 - Estimated 4 hours process
- Start upgrades/installs Early May



WindowsXP

Migration Process (abbreviated process)

- Upgrade hardware, if applicable
- Back up the **ENTIRE** hard drive to a Gen-X file server.
- Install Windows XP and migrate to the Code 580 Active Directory (if not already migrated). This is a full installation of XP not an upgrade!
- Install the Standard suite of applications that now includes Microsoft Office 2003 (which is compatible with their current version of MS Office is being procured for the end user), Eudora, Netscape, Meeting Maker, Patchlink, McAfee Anti-virus, etc.
- Transfer Eudora data, My Document and other user data back to the system.
- It is up to the end user to re-install any other software applications but the system administrator can be scheduled to assist in the installation. Remember - only properly licensed software packages will be reinstalled on the system.
- After all the software is loaded and tested, the PC will be released to the user. The data from your hard drive will remain on the file server for 1 week. This is a precautionary measure in the event a restore is required following the upgrade.



Patchlink

- ✖ The Agency Security Update Service (ASUS) Project has been evaluating various methods for providing an Agency-wide patch security management system. The project concluded that PatchLink was the best solution and has been directed by NASA HQ to coordinate the installation of PatchLink at all NASA Centers.
- ✖ PatchLink has two different functions, reporting and patching.
 - Reporting is pretty automatic; the PatchLink client sends the information back to the PatchLink server where the data is compiled and the report forwarded up the line (to the GSFC CIO and then to the NASA CIO if required) in response to data calls.
 - Patching machines via the PatchLink program is more complicated. All PatchLink clients are set up as part of a group, with each PatchLink administrator controlling the process that will provide the patches to the machines assigned to his group. There are many different process and procedures that can be utilized by the PatchLink administrator depending on the users, type of work they are performing, and the requirements specified in the security plan. The application is very user focused and allows a very wide variety of options in providing patches in a timely manner.



Patchlink

Still at initial testing stage at Center level

- Ensures client installations
- Reporting Feature only
- 585 Piloted with no impact to performance
- Overall Center thoughts are positive and PatchLink should go forward.

Center Schedule

- March 1 -- Patchlink Lunch and Learn, 11:30 B8 auditorium
- March 1 -- Submit initial names of managers/admins for Patchlink structure
- March 9 -- Last date to submit names of people attending Patchlink training
- March 15 and 16 -- Patchlink training; training is one day, two days of classes offered, 18 slots avail. each day
- April 1 -- Target date for bringing new Patchlink servers online and to start full client reporting capabilities
- August 2004 -- Target time frame for full Patchlink install on all clients at Goddard



PatchLink

Code 580 Approach

- Install clients (Complete by June)
 - Install during AD migration (gets all Windows systems)
 - Installation on non-window system (desktop and labs)
 - Implement reporting tools only
 - Limited administrators and manager assigned (rest on request)
- Develop update requirements (complete by September)
 - Assign remaining system administrators and managers
 - Develop ISD policy for “forced” upgrade
 - Identify target systems in upgrade categories
 - Implement in PatchLink Server by cognizant system administrator

Other issues

- ODIN systems will be install by ODIN